

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A robot system equipped with one or more tools (5, 15), a camera (9) and a light source (13) for illuminating the field of view of the camera (9), ~~characterized in that~~ wherein the light source (13) and the camera (9) can be moved independently of one another in order to illuminate the field of view from different directions.
2. (currently amended) The robot system as claimed in claim 1, ~~characterized in that a~~ wherein a subassembly that comprises the camera (9) and the light source (13) as well as at least a first adjusting device (10, 11, 12) for moving camera (9) and the light source (13) relative to one another can be moved by a second adjusting device (8) with reference to a common base.
3. (currently amended) The robot system as claimed in claim 2, ~~characterized in that of~~ wherein one of the camera (9) and light source (3) ~~one~~ is firmly connected to the second adjusting device (8).
4. (currently amended) The robot system as claimed in claim 2, ~~one of the preceding claims, characterized in that~~ wherein a subassembly that comprises the camera (9) and at least one of the tools (15) as well as at least one third adjusting device (14) for moving camera (9) and tool (15) relative to one another can be moved by a fourth adjusting device (8) with reference to a common base.
5. (currently amended) The robot system as claimed in claim 4, ~~characterized in that of~~ wherein one of the camera (9) and tool (15) ~~one~~ is firmly connected to the fourth adjusting device (8).

6. (currently amended) The robot system as claimed in claim 4 ~~one of the preceding claims, characterized in that~~ wherein the tools (5, 15) include at least a gripping tool (15) and a further tool (5).
7. (currently amended) The robot system as claimed in claim 6, ~~characterized in that~~ wherein the number of degrees of freedom with which the gripping tool (15) and the camera (9) can be moved with reference to one another is greater than the number of degrees of freedom of the camera (9) and the gripping tool (15) with reference to a stationary part of the robot system.
8. (new) A robot system equipped with
 - one or more tools (5, 15) for manipulation of a workpiece (6),
 - a camera (9) for detecting the geometric characteristics of the workpiece, the camera having a field of view, and
 - a light source (13) for illuminating the field of view of the camera (9),wherein the light source (13) and the camera (9) are moveable independently of one another in order to illuminate the field of view from different directions.
9. (new) The robot system as claimed in claim 8, wherein a subassembly that comprises the camera (9) and the light source (13) as well as at least a first adjusting device (10, 11, 12) for moving camera (9) and the light source (13) relative to one another is moveable by a second adjusting device (8) with reference to a common base.
10. (new) The robot system as claimed in claim 9, wherein one of the camera (9) and light source (3) is firmly connected to the second adjusting device (8).
11. (new) The robot system as claimed in claim 9, wherein a subassembly that comprises the camera (9) and at least one of the tools (15) as well as at least one third adjusting device (14) for moving camera (9) and tool (15) relative to one another can be moved by a fourth adjusting device (8) with reference to a common base.

12. (new) The robot system as claimed in claim 11, wherein one of the camera (9) and tool (15) is firmly connected to the fourth adjusting device (8).
13. (new) The robot system as claimed in claim 11, wherein the tools (5, 15) include at least a gripping tool (15) and a further tool (5).
14. (new) The robot system as claimed in claim 13, wherein the number of degrees of freedom with which the gripping tool (15) and the camera (9) can be moved with reference to one another is greater than the number of degrees of freedom of the camera (9) and the gripping tool (15) with reference to a stationary part of the robot system.